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BIREME

Latin American and Caribbean Center
on Health Sciences Information

Report: BIR IT 07/24

Executive Report

X Session of the Scientific Committee of BIREME

August 27, 2024

São Paulo – August 2024

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Executive Summary

BIREME, as a PAHO/WHO entity associated with the Department of Evidence and Intelligence for Action in Health (EIH), acts as a digital library specializing in the scientific and technical production of Latin America and the Caribbean in the health sciences. Its mission is to promote health through access to scientific and technical information. Its focus is on technical cooperation with countries to establish Virtual Health Libraries and other products, services and information systems aimed at bibliographic control, indexing, archiving and the development of digital platforms for searching and retrieving scientific and technical health information.

Founded in 1967, BIREME has stood out as a center of expertise in health promotion in Latin America and the Caribbean. In 2024, the institution celebrated 57 years of continuous operation, with the Virtual Health Library (VHL) as its main program, recognized for its cooperation practices between countries, including UNOSSC, the United Nations Agency for South-South Cooperation.

BIREME has been implementing its Strategy 2023-2025, aligned with PAHO's strategic objectives and the current scenario of global digital transformation. The Strategy places the user at the center of the development of information products, prioritizing the strengthening of decision-making capacities in health and the adoption of advanced technologies to expand access, personalize and virtualize digital libraries. BIREME's 2024-2025 Biannual Work Plan (BWP) seeks to give materiality to the Strategy 2023-2025 and includes strategic initiatives covering information management, high-quality services, health intelligence and global technical cooperation.

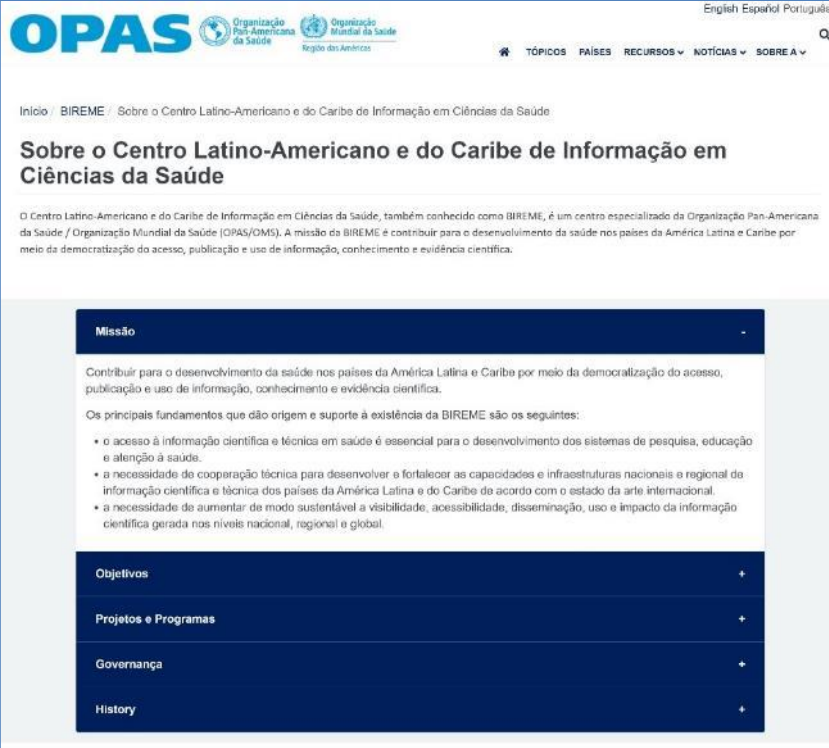
BIREME continues to be a beacon for health promotion in Latin America and the Caribbean. With health information products that advance in scope and impact, BIREME supports informed decision-making, strengthens health systems and contributes to reducing health inequalities. Its networking, involving institutions from across the region, demonstrates the potential of South-South cooperation, innovation and continuous development towards health for all.

Below is a summary of the aspects related to BIREME's institutionality, governance, financial sustainability and main achievements in 2023 and the first half of 2024, as well as a description of its products and services oriented towards the Center's technical cooperation.

1. Institutional

1.1 Background

BIREME was established in São Paulo, Brazil in 1967 as the Regional Library of Medicine by means of an Agreement between the Government of Brazil and PAHO/WHO, with a technical cooperation



model based on the essential functions of a medical library. Since 1982, the official name changed to reflect the expansion of the technical cooperation model, including the outstanding role of providing regional and international visibility to scientific and technical health output in Latin America and the Caribbean (LA&C).

With a regional operation and a technical cooperation program aimed at meeting the priorities of the countries of Latin America and the

Caribbean, BIREME is one of the three specialized centers of PAHO/WHO in the region. These specialized centers, in addition to BIREME, include Pan American Foot-and-Mouth Disease Center (PANAFTOSA) and the Latin American Center for Perinatology, Women's and Reproductive Health (CLAP), which act jointly and support each other, when necessary, both in forwarding technical and administrative demands.

In 2024, BIREME celebrated 57 years of uninterrupted action in its mission to promote the health of people and communities by facilitating access to and use of scientific and technical information for action in health. The



Virtual Health Library (VHL), which completed 26 years of operation, is BIREME's main technical cooperation program and was considered a good practice in South-South and triangular cooperation by the United Nations Agency UNOSSC (United Nations Office for South South Cooperation). In this context, BIREME's technical cooperation is guided by lines of action developed with the participation of more than 1,000 academic and government libraries and more than 1,500 health institutions. These lines of action are summarized in Box 1.

Box 1: Main lines of action of BIREME's technical cooperation

- **Increase the visibility of scientific production in health in LA&C countries**, support the registration and indexing of their scientific and technical literature in regional, national and international databases; adopt open access strategies, collect data to evaluate scientific communication in health and develop web technologies and interfaces for information search and retrieval.
- To **develop the capacity to make decisions based on health evidence**, such as training activities on access to and use of evidence, systematization of information, scientific communication, among others, to guide health policies and decision-making and to implement instructional design for distance learning courses integrated into the Virtual Public Health Campus (CVSP).
- **Develop and implement actions in knowledge management** to strengthen national health policies and strategies, improving the capacity of institutions in knowledge management; develop information products and services to facilitate access to information and the application of knowledge in order to meet strategic priorities and health objectives.
- To **apply the process of knowledge translation** to extract potentially useful information, map and systematize the available evidence, contribute to the definition of research priorities and generate indicators of scientific and technical production in health based on data available in the information sources of the Virtual Health Library (VHL).
- In addition, the **development of knowledge translation products and services** to bridge the gap between research and practice through special research services, analysis, synthesis and application of scientific knowledge to support decision-making processes in health and help reduce the so-called "*know-do-gap*".
- **Implement knowledge platforms to integrate and manage research data** and facilitate the measurement and analysis of research activities and simplify access to comparative information on countries' priority health issues.

1.2 BIREME's new institutional structure (CD49.R5)

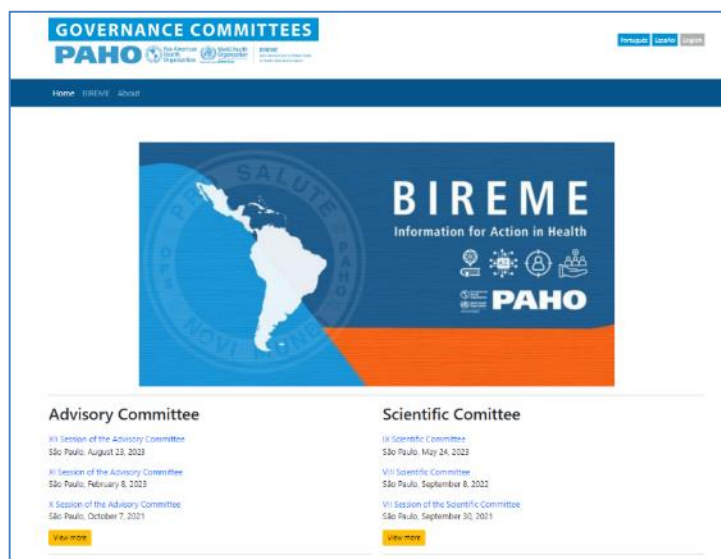
In 2009, the PAHO's Directing Council approved the resolution CD49.R5, which establishes a new institutional structure for BIREME. This resolution is in the process of being implemented, pending the establishment of the Headquarters Agreement for BIREME in Brazil. The Headquarters Agreement for BIREME will define the responsibilities of the Brazilian government in relation to the maintenance of this Pan American Center, as well as its privileges and immunities in Brazil. There is currently a mobilization of efforts between the Ministries of Foreign Affairs and Health, and PAHO, to make the Headquarters Agreement viable. Achieving this agreement is fundamental for strengthening the Center's operations and technical cooperation, both in Brazil and in the region, effectively contributing to BIREME's financial, institutional and technical sustainability.

1.3 Governance Committees

Characterized by the Advisory (AC) and Scientific (SC) Committees, whose members have met annually for 14 (fourteen) years, to support the continued strengthening of the operation and products and services of the BIREME/PAHO/WHO technical cooperation program and to provide innovative recommendations to the Director and Executive Management of PAHO/WHO.

The Governance Committees' portal contains the documents and sources of information relating to the sessions already held, such as the program, executive report and recommendations.

Available at: <https://comitesgovernanza.bireme.org/en/>.



The resolution of the PAHO's Directing Council ([CD49.R5](#)) established the structure of the new legal framework constituted by the Statute of BIREME, and a governance structure of BIREME, with the following composition:

A) BIREME Members defined in the categories: a) Member States: all Member States, Participating States and PAHO Associates Members; b) Participating States: WHO Member States, in addition to those that are already members of PAHO, and c) Participating Organizations: international public organizations with specific qualifications related to technical-scientific information and communication. The participation of new members is defined by PAHO.

B) Advisory Committee (AC): permanent body of BIREME formed by PAHO and the Government of Brazil as permanent members and by five of BIREME's members as non-permanent members who were elected during the meetings of the PAHO/WHO Directing Councils as follows:

- On the 60th. Governing Council (CD60.R9): Cuba and Guyana, for a three-year term (2024-2026). Resolution 11 (CD60.R11) formalized changes to the BIREME Statute.
- In the 59th Governing Council (CD59.R11): Chile, Guatemala and, Trinidad and Tobago for a three-year term (2022-2024);
- In the 58th Governing Council (CD58.R6): Colombia and Costa Rica for a three-year term (2021-2023);
- In the 56th Directing Council (CD56.R4): Guyana, Mexico and Uruguay for a three-year term (2019-2021);
- At the 29th Pan American Sanitary Conference (CSP29.R9): Barbados and El Salvador for a three-year term (2018-2020);
- In the 54th Directing Council (CD54.R5): Argentina, Jamaica and Peru for a three-year term (2016-2018);
- In the 53rd Directing Council (CD53.R5): Panama and Trinidad & Tobago for a three-year term (2015-2017);
- At the 28th Pan American Sanitary Conference (CSP28.R5): Cuba, Ecuador and Puerto Rico for a three-year term (2013-2015);
- In the 51st Directing Council (CD51.R2): Bolivia and Suriname for a three-year term (2012-2014); and
- In the 49th Directing Council (CD49.R6): Argentina, Chile and the Dominican Republic for a three-year term (2010-2012) and Jamaica and Mexico for a two-year term (2010-2011).

The role of this Committee is to make recommendations to the Director of PAHO/WHO on BIREME's programmatic functions, work plan and financing.

Twelve sessions of the Committee occurred in compliance with the implementation of BIREME's new institutional framework, following Resolution 5 of the 49th Directing Council of PAHO/WHO (CD49.R5). The XII Session took place online on August 23, 2023. The XIII Session is scheduled for August 29, 2024.

The table below provides information on the dates and participants of each session held. The highlights in bold indicate the countries that chaired the session.

Session	Date	Location	Participants
XII AC	August 23, 2023	Online	OPAS/OMS (EIH, BIR) Countries (Brazil , Chile, Costa Rica, Guatemala)
XI AC	February 08, 2023	Online	OPAS/OMS (EIH, BIR) Countries (Brazil , Chile, Colombia, Costa Rica, Guatemala)
X AC	October 07, 2021	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Barbados, El Salvador, Guyana, Mexico and Uruguay)
IX AC	December 17, 2020	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Barbados, El Salvador, Guyana, Mexico and Uruguay)
Ad-hoc	July 30, 2020	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Barbados, El Salvador, Guyana and Uruguay)
VIII AC	October 24-25, 2019	BIREME	PAHO/WHO Countries (Brazil , Barbados, El Salvador, Guyana, Mexico and Uruguay)
VII AC	November 07-08, 2018	BIREME	PAHO/WHO (EIH a.i., PAHO Brazil, BIR) Countries (Brazil, Argentina , Jamaica, Peru, El Salvador and Barbados.
VI AC	February 02, 2017	BIREME	PAHO/WHO (AD, KBR, BIR) Countries (Brazil , Argentina, Jamaica, Panama, Peru, Trinidad & Tobago)
V AC	December 03, 2014	BIREME	PAHO/WHO (AD, KBR, BIR) Countries (Cuba , Ecuador)
IV AC	November 26, 2013	BIREME	PAHO/WHO (KMC, BIR) Countries (Brazil , Bolivia, Cuba, Ecuador, Puerto Rico)
III AC	December 05, 2012	BIREME	PAHO/WHO (KMC, BIR) Countries (Argentina, Brazil , Bolivia, Chile, Dominican Republic, Suriname)
II AC	October 25, 2011	BIREME	PAHO/WHO (KMC, PAHO BRA, BIR) Countries (Argentina, Brazil , Chile, Dominican Republic)
I AC	August 31, 2010	OPS Headquarters	PAHO/WHO (D, AD, DD, AM, KMC, LEG, PAHO BRA, BIR) Countries (Argentina, Brazil , Chile, Dominican Republic, Jamaica, Mexico)

C) Scientific Committee (SC): BIREME's permanent body made up of at least five scientific information specialists appointed by BIREME's Advisory Committee. Its function is to help maintain and improve BIREME's capacity to monitor the development of methodologies, technologies, products, services and events that characterize national and international scientific information and communication systems and the challenges for their contextualization in Latin America and the Caribbean. The initial process of nominating the members of the Scientific Committee by the national authorities, their evaluation and appointment was concluded on December 5, 2012, at the III Session of the Advisory Committee. The four appointed members were nominated by Canada, Honduras, Trinidad and Tobago and Brazil, and a fifth member from the US National Library of Medicine. At the VI Session of the Advisory Committee, new members of the Scientific Committee were selected for their professional characteristics related to Scientific Communication, Research, Information Management, Education and Knowledge Management and Information Technology, for a period of 3 years, which may be renewed for a further 3 years.

Nine sessions of the Scientific Committee were held. The IX Session occurred online on May 24, 2023. The X Session is scheduled for August 27, 2024.

The table below provides information on the dates and participants of each session held. The highlights in bold indicate the countries that chaired the session.

Session	Date	Location	Participants
IX SC	May 24, 2023	Online	OPAS/OMS (EIH, BIR) Countries (Argentina, Brazil , United States, The Netherlands, and Peru)
VIII SC	September 08, 2022	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Argentina, United States, The Netherlands, Mexico, and Peru)
VII SC	September 30, 2021	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Argentina, United States, The Netherlands, Mexico, and Peru)
VI SC	December 04, 2020	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Argentina, United States, The Netherlands, Mexico, and Peru)
Ad-hoc	August 28, 2020	Online	OPAS/OMS (EIH, BIR) Countries (Brazil, Argentina, United States, and Mexico) Note: The experts from the Netherlands and Peru justified their absences
V SC	November 28-29, 2019	BIREME	PAHO/WHO (BIR) Countries (Brazil , Mexico, Jamaica, Colombia, Cuba, and Costa Rica)
IV SC	December 03, 2018	BIREME	OPS/WHO (EIH a.i., BIR) Countries (Brazil, Mexico , Jamaica, Colombia, Cuba, and Costa Rica)
III SC	December 08, 2017	BIREME	PAHO/WHO (AD, KBR, BIR) Countries (Mexico, Jamaica, Cuba , Colombia, Costa Rica, and Brazil)
II SC	August 14, 2014	BIREME	PAHO/WHO (AD, KBR, BIR) Countries (Brazil, Honduras , Trinidad & Tobago, and US National Library of Medicine)
I SC	July 25, 2013	BIREME	PAHO/WHO (AM, KMC, BIR) Countries (Brazil , Canada, Honduras, Trinidad & Tobago, and US National Library of Medicine)

D) Secretariat: BIREME's permanent body, formed by the Director and the Center's technical and administrative professionals, which totals 38 people. It is responsible for managing and executing the programmatic functions of BIREME's Biannual Work Plans (BWPs), developed in coordination with

the PAHO/WHO Department of Evidence and Intelligence for Action in Health (EIH). The Center's current director, Dr. João Paulo Souza, was appointed in October 2022.

The recommendations of the Governance Committees are taken into account in the preparation of the BIREME/PAHO/WHO BWP, and therefore, considered in the development and strengthening of information products and services for the period. The following are the recommendations made by both committees in the 2023 sessions that contributed to the BWP for the current 2024-2025 biennium.

1.3.1 Recommendations - XII AC (Aug 23, 2023)

Considering the purposes of the BIREME Strategy 2023-2025 (i.e. to contribute to PAHO's vision of health for all and to facilitate the development of information products compatible with the most advanced stage of digital transformation), the BIREME's Advisory Committee:

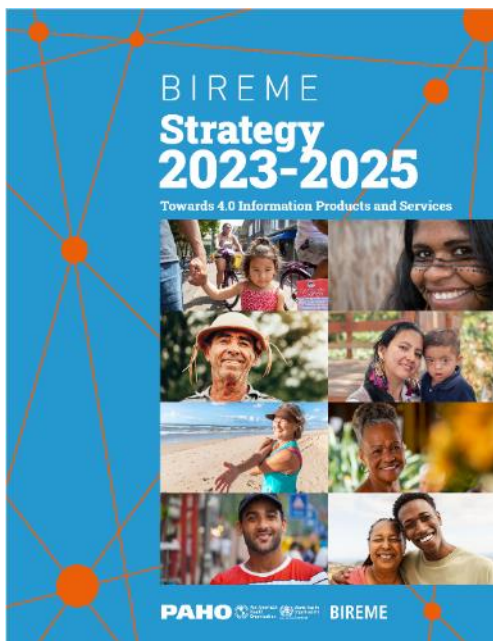
- i. Recognizes the proposed strategy as a valid approach;
- ii. Recommends its implementation.

1.3.2 Recommendations - IX SC (Aug 08, 2023)

- i. Address disinformation programmatically, with an emphasis on:
 - Publication of health information with full provenance of evidence and data;
 - Avoid spreading irrelevant information;
 - Surveillance of disinformation spread by *large* language models (LLM), emphasizing the importance of data reliability and provenance.
- ii. Promote collaborative work with other institutions dedicated to the development of specific information technologies to overcome the specific challenges of the area, through:
 - Exchange with doctoral/post-doctoral researchers, focusing on the development of machine learning projects and the use of data based on the four FAIR principles (i.e. making all types of data that are fragmented and disconnected more easily locatable - Findable, Accessible, Interoperable and Reusable).
- iii. Advancing the development of technology, products and services with Industry 4.0 attributes, with an emphasis on:

- Products and services that are exclusively developed and offered by BIREME, and which have the potential to make it stand out as a unique reference for the Region, such as multilingualism;
- Bibliometric mapping with monitoring of classic scientific production indicators and automated translation into Portuguese and Spanish, as a way of tackling language barriers and facilitating access for users who are not proficient in English or Spanish;
- Publication of open data, nano-data and machine-readable data;
- Improving the search capacity and search quality of BIREME's information systems;
- Evolving evidence maps into intelligent/living maps, allowing for the automatic inclusion of new studies and aggregating efforts to translate knowledge for decision-makers.

1.4 Strategy 2023-2025



Considering its scope of action, strongly supported by the development and operation of digital information products, BIREME is centrally affected by the global megatrend of digital transformation. To address these challenges, BIREME developed its Strategy 2023-2025, which was recommended for implementation by the BIREME Advisory Committee in August 2023. BIREME's Strategy 2023-2025 aims to contribute to the realization of PAHO's vision and facilitate the development of BIREME's transition to information products and services 4.0. It is also expected to contribute to the reification of the Five Pillar Vision proposed by the Director of PAHO in 2023, particularly the "PAHO Forward" pillar. Thus, in addition to the requirements for an advanced digital

transformation, this strategy is based on the programmatic priorities of the entire Organization.

Four areas of work have been identified to receive intensified efforts:

- Strengthening the capacity of lay people and communities to make decisions
- health-related decisions;
- Strengthening the decision-making capacity of professionals;
- Support for the development of health policies;
- Support for health research.

Nine strategic interventions were designed to address opportunities for improvement, build on strengths and facilitate the development of focus areas. A theory of change that articulates the nine strategic interventions with the four areas of work that lead to PAHO's vision is included in the strategy. Innovation plays a central role in the theory of change, and an innovation plan integrates the strategy.

Over the last 12 months, the Strategy 2023-2025 has been progressively implemented, with the following actions standing out:

- Identification of avenues of research, development and innovation for the incorporation of new technologies:
 - Incorporation of language models in BIREME's information products, with emphasis on the use of natural language and the narrative synthesis of search results;
 - Personalization of virtual libraries, with an emphasis on predictive search;
 - Development of virtual spaces that allow an immersive experience for users, including "virtual exhibitions" of documents, images and other artifacts;
- Ideation of new projects aligned with the needs of the countries and the strategic priorities of research, development and innovation;
- Orientation of the 2023-2025 Work Plan to give tangibility to the 2023-2025 Strategy;
- Gradual implementation of agility solutions geared towards product management, in particular the Scrum framework.

2. Biannual Work Plan (BWP)

Developed on the basis of the PAHO/WHO Strategic Plan for the period 2020-2025, the Sustainable Health Agenda for the Americas (SHAA 2030), the Sustainable Development Goals (SDGs) of the 2030 Agenda and the BIREME Strategy 2023-2025, BIREME's BWP for the biennium 2024-2025 (BWP 24-25) was approved by PAHO's Executive Management in 2023. This BWP has four main initiatives and approximately seventy-five (75) Projects or Products and Services (P/S) associated with eight Immediate and Intermediate Results (20.01, 21.02, 21.04 and 22.03, and 120.01, 121.02, 121.04 and 122.03 of the mirror category) of the PAHO/WHO Strategic Plan for the period 2020-2025.



The following table presents in a structured way the initiatives and their products and services for BWP 24-25 implemented in approximately 50% by the end of the 1st Semester of 2024:

BWP 24-25 Initiatives and projects
Information and knowledge management BIR.01
Strengthening the Collaboration Network for Information Management BIR.01.01
DeCS updated according to the MeSH, interoperable with the UMLS and expanded with other terminological categories BIR.01.02
VHL model updated according to the new BIREME Strategy and applied in LA&C BIR.01.03
LILACS strengthened as a regional public good BIR.01.04
LILACS database strengthened as the main index of scientific and technical information of LA&C BIR.01.05
Contribute to the improvement of the quality of the Scientific Health Journals of LA&C BIR.01.06
Information indexing process in databases that adopt the revised and innovated LILACS Methodology BIR.01.07
Standardization and quality of metadata from VHL information sources BIR.01.08
Systems, tools and applications developed by BIREME contributing to the updating and quality of the services and products of the VHL BIR.01.09
Bibliographic control expanded with national and thematic databases, complementary to LILACS BIR.01.10
PAHO/WHO information products developed by BIREME and integrated into the VHL BIR.01.11
Development of information products for other regions through cooperation with WHO BIR.01.12
VHL TCIM Americas contributing to the integration of TCIM in the health systems and services of the Region BIR.01.13
Information Services BIR.02
Events held to promote access and use of health information in the Region BIR.02.01
Personalized information services expanded and perfected - MyVHL BIR.02.02
VHL information search and retrieval interface BIR.02.03
Collection of information sources from the VHL Regional Portal updated BIR.02.04
e-BlueInfo application implemented with information for health teams BIR.02.05
SimilarInfo Service expanding the visibility of the information available in the VHL BIR.02.06
Services that contribute to the application of scientific knowledge in Primary Health Care developed BIR.02.07
Windows of Knowledge developed and updated BIR.02.08
Expanded Evidence Map Collection BIR.02.09
Intelligence in Information in Health Sciences BIR.03
Infometrics of the scientific and technical production of LA&C published in LILACS BIR.03.01
Open metadata of the reference information sources of the VHL BIR.03.02
New architecture for Data Intelligence available with quality information BIR.03.03
Leadership and Management of BIREME BIR.04
Management of the entity and its ongoing operations to ensure the implementation of the TC program BIR.04.01
Management System implemented in accordance with the institutions, recommendations and rules of PAHO and PAHO Forward Action Plan BIR.04.02
Risk mitigation plan developed and implemented BIR.04.03
Implemented and effective BIR communication strategy BIR.04.04
Human resources plan 24-25 developed, implemented and monitored BIR.04.05
PAHO procedures and recommendations related to the administrative management of the Center strengthened and implemented BIR.04.06
ICT infrastructure available and updated in accordance with the standards and management methods guided by PAHO BIR.04.07
Biennial Work Plan 24-25 developed, implemented and monitored BIR.04.08
Planned and funded general operating expenses (GOE) BIR.04.09
24-25 Learning plan developed, implemented and monitored BIR.04.10
CRICS XI and VHL VIII carried out BIR.04.11
Project Management to support the development of agreements with a focus on the mobilization and fund monitoring BIR.04.12
Compliance with internal controls duly monitored and certified BIR.04.13

2.1 Summary of BIREME's Initiatives, Products and Services

A summary of some of the progress on each initiative in the work plan appears below.

Initiative BIR.01 - Information and Knowledge Management

- Strengthening and expanding the work carried out by BIREME on behalf of the VHL, LILACS, DeCS and all the sources of information that contribute to democratizing access to and visibility of scientific knowledge in health in the countries of AL&C, is the main objective of the annual calendar of Meetings of the Networks, aligned with the needs of coordination, planning, mobilization and exchange of experiences for information professionals from the cooperating institutions in all the countries of AL&C. The program of Meetings for 2024 included 24 online sessions distributed along 5 axes: a) LILACS and VHL networks; b) Good practices in the editorial process of scientific journals; c) Access to and use of information (Network of Referencers); d) Indexing according to the LILACS Methodology; and e) Strengthening the English Caribbean VHL network. There have been 13 sessions to date, with a total of 1,621 connections accounted for, and an average of 125 connections and an average of 17 countries per session.

All the sessions were recorded and made available for access on the VHL Network Portal:

<http://red.bvsalud.org/fortalecimiento-das-redes-de-informacao-em-saude-na-alc/>.

And for English Caribbean: <https://red.bvsalud.org/en/strengthening-information-networks-in-the-Caribbean-countries-2024/>.

Capacitación de la Red - 2024		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto
Indización de Documentos según la Metodología LILACS 2024	Conexiones			73		105		77	
	Países			13		18		19	
Buenas prácticas en los procesos editoriales de revistas científicas LILACS	Conexiones				161		120		
	Países				17		18		
Red BVS	Conexiones		174	116	154	183			
	Países		17	17	17	16			
Encuentro de la Red de Referencistas	Conexiones						157	158	107
	Países						16	19	17
English Caribbean Countries - VHL	Conexiones							36	
	Países							5	

- LILACS** is AL&C's main index of scientific and technical production and is updated daily with the contribution of its cooperation network. In the first half of 2024, the LILACS Cooperation Network contributed 17,498 new records and 35,755 updated records. LILACS should reach more than one million one hundred thousand bibliographic records by the end of the year, the majority of which are journal articles. LILACS currently indexes 914 journal titles from 21 AL&C countries.

LILACS and the open science movement were frequent topics at the editorial process best practice sessions and at other VHL Network events. The FI-Admin system makes it possible to register the open data of the documents indexed in the databases.



- The processes for updating, maintaining and publishing LILACS and other databases are managed using the FI-Admin system. This system has been updated monthly with new features, corrections and improvements to improve bibliographic description and thematic indexing. The updates have focused on the LILACS Methodology in terms of authorship responsibility, availability of research data and related resources that provide greater transparency and verification of data integrity and reproducibility, as well as attribution of the type of use license adopted and topics related to Open Science and inclusion of data in the system's API. In 2023 and 2024 (until July), improvements were made to the LILACS Electronic Journal Evaluation and Selection System, with 7 analysis, support and development activities, and 3 minor updates related to the flow of new users into the journal evaluation process.
- In 2024, the criteria for inclusion and permanence of journals in LILACS Brazil are being revised to include issues related to artificial intelligence and three of DEIA principles (Diversity, Equity and Inclusion) in the editorial processes of scientific journals in the LILACS collection. By the end of the year it is hoped to carry out the public consultation process and publish the new criteria.
- Another highlight for LILACS was the update of the profile of journals indexed in LILACS in 2023 and the publication of the data visualization that consolidates data collected from 2021 to 2023. The 2024 journal profile is currently being revised so that data collection can begin.

Perfil de periódicos LILACS 2021-23 (em espanhol)



Perfil de periódicos LILACS 2023 (espanhol)



- In the process of evaluating and selecting LILACS Brazil 2024 journals, which began in April, there were 16 self-assessments of compliance with the LILACS criteria. 12 submitted documentation to the process and 6 met the minimum requirements for analysis during the Committee meeting. The process is ongoing and is scheduled to be completed in November. In addition to the process, so far 8 titles from 6 countries (Argentina, Bolivia, Brazil, Colombia, Panama and Peru) have been indexed in LILACS.
- **Network Capacity Building.** The training and updating activities of the Collaboration Network are offered following a defined annual calendar, with broad participation by collaborators and information professionals from all Latin American and Caribbean countries. In 2023, 37 online training sessions were held, which totaled around 2,000 connections from participants of the VHL's cooperating institutions from 20 countries. By June 2024, 9 sessions had been held out of the 23 scheduled for the year, with an average of 138 and a median of 154 connections per session from 19 countries. The documentation for these training sessions is available at: <https://lilacs.bvsalud.org/es/sesiones-virtuales-lilacs/>.
- In 2024, the LILACS Indexers Network continues to be active with the development of content and facilitation of 4 sessions which include topics such as indexing with DeCS/MeSH 2024 terms, Traditional, Complementary and Integrative Medicine categories, Homeopathy and testing 7 automatic or artificial intelligence tools to support health indexing. Network members also took part in planning the 2024 sessions, discussing themes and practical activities to be developed. All

in all the meetings amounted to around 12 facilitation meetings for the three sessions already held. Participating countries: Argentina, Brazil, Chile, Costa Rica and Mexico.

- The **VHL Model** for managing health information and knowledge continues to be promoted, developed and adapted to the needs of the Network, and is applied in 67 national, thematic and institutional initiatives (Instances) in 30 countries in the Region. The evolution of the VHL Model is constant, conceptually and technologically, always aligned and based on collaborative and networking work. Various activities to manage and strengthen the VHLs are carried out regularly, including: monitoring the work of the Network, technical and methodological support for reviewing and updating the content of the portals, webmaster activities, renovation of the VHL portals with restructuring of the information architecture, graphic design, updating the version of the technological platform (CMS WordPress) and hosting on BIREME's IT infrastructure. Highlights include the following VHL instances:
 - National bodies: BHL Bolivia, BHL Costa Rica, BHL Guatemala, BHL Honduras, BHL Nicaragua, BHL Uruguay, BHL Mozambique.
 - Institutional bodies: VHL Municipal Health Department of São Paulo (Brazil), VHL Ministry of Health, VHL Fiocruz.
 - Thematic instances: VHL Health Economics (Brazil), VHL Homeopathy (Brazil), VHL Cancer Prevention and Control.
 - Regional instances: VHL MTCI Americas and VHL Nursing.

- The technological platform for managing the VHL and its information sources continues to be updated, using modern technologies and *open source* platforms. The VHL platform is made up of an ecosystem of applications and web services. In December 2023, more than 135 open source repositories were available on the GitHub service.

- **Bibliographic control** of the scientific and technical production of the AL&C countries is carried out by the Collaboration Network by registering and indexing this production in LILACS in national databases such as: CUMED (Cuba), BINACIS and ARGMSAL (Argentina), LIBOCS (Bolivia), LIPECS and MINSAPERU (Peru), ColecionaSUS (Brazil), COLNAL (Colombia), BDNPAR (Paraguay); thematic databases such as: MOSAICO, BDEF, BBO, VETINDEX, HOMEINDEX, INDEXPSI, PREVCAN, and others. Many of these databases make up the VHL's regional index. The efficiency of this collaborative work is sought through the development of capacities in the Network for the management of the methodologies and technologies offered by BIREME, in addition to the constant actions of technical and methodological support and coordination of the

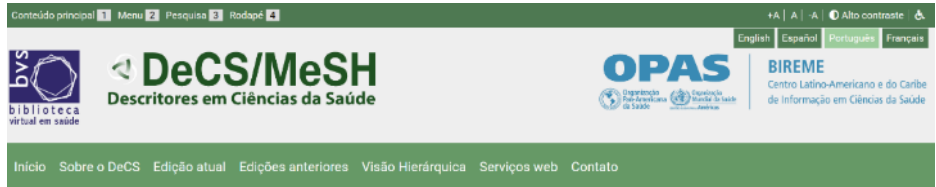
Network in more than 20 countries. The result is reflected in 94 bibliographic reference databases managed in the FI-Admin system, with more than 1.5 million bibliographic records. Other types of resources are also managed in this system, including approximately 21,000 periodicals, 48,000 laws, 13 multimedia resources, 39,000 internet resources, 25,000 events and 2,000 educational resources. In 2023, 103,402 new records were created and 150,000 records were updated in FI-Admin . By July 2024, 37,941 records had been created and are available at:

<https://red.bvsalud.org/fi-admin-pt/bases-de-dados-bibliograficas-geridas-no-fi-admin/>.

- The LILACS-Express initiative enabled data collection from SciELO and 8,803 articles were uploaded to LILACS, BBO, BDEFN, IndexPsi, BNUY and VetIndex, as shown in the table below:

Collection	BDEFN	INDEXPSI	LILACS	LILACS; BBO	LILACS; BDEFN	LILACS; BNUY	LILACS; INDEXPSI	LILACS; VetIndex	VetIndex ex	Grand Total
Argentina			314							314
Bolivia			101							101
Chile			391		19					410
Colombia			2030		62					2092
Costa Rica			46		9					55
Cuba			717		7					724
Mexico			209							209
Peru			275							275
Portugal	17									17
Paraguay			91							91
Psychology		7								7
Nursing					190					190
Brazil		43	2649	220	228		234	52	572	3998
Spain			188	4						192
Uruguay			49		4	14				67
Venezuela			61							61
Grand Total	17	50	7121	224	519	14	234	52	572	8803

- The **DeCS** continues to be updated annually, according to the MeSH update maintained by the NLM, in English, Portuguese, Spanish and French. The Spanish version of AL&C has the collaboration of the Faculty of Medicine of the University of Chile and the Spanish



version has the collaboration of the Carlos III Health Institute. In 2016, the MeSH translated into French was incorporated into the VHL, in addition to the translation of the exclusive DeCS categories (Public Health, Homeopathy, Health Surveillance and Science and Health) in collaboration with the *Université de Rouen* (France) with annual updates. Since the DeCS/MeSH 2019 version, the new thesaurus management system has been developed and is in operation, integrated with the FI-Admin system, with the capacity to manage multiple vocabularies in multiple languages, replacing the legacy system of more than two decades. In May 2024, the DeCS/MeSH 2024 edition was launched in English, Portuguese, French and Spanish with two language variants: Latin American and Spanish.

Highlights of the DeCS/MeSH 2024 version:

- Progress has been made in revising the exclusive Homeopathy category, an activity that has been underway since 2022 and is due to be completed in 2025. The current edition has focused on adjusting the "Hierarchies" of the terms, which are now classified by the origin of the medicines, such as: "Homeopathic Medicine of Animal Origin" or Plant Origin, Viral, Bacterial, etc.
- Inclusion of 311 new MeSH descriptors and 83 DeCS descriptors in categories exclusive to Latin American literature. As a result, DeCS now contains more than 729,000 terms, including descriptors and synonyms, available in four languages.
- Special projects were also highlighted in the 2024 Edition, with updates in the area of "Psychological Stress" and the publication, in Portuguese, of the revision of scope notes, terms and descriptors with potential capacitist bias to adapt to inclusive language. More details are available at: <https://decs.bvsalud.org/en/updates-for-the-2024-edition/>.



- The Introductory Course in Scientific Communication in Health Sciences, available on the Virtual Campus for Public Health (CVSP), aims to promote the effective dissemination of scientific research results in the countries of the region. From its launch in November 2019 until August 2024, the course registered approximately 36,500 participants. From 2023 to 2024, there were 925 new registrations and 299 certificates issued. The countries with the highest participation during this period were Brazil and Angola. Among the most engaged professional categories, nursing professionals stand out, followed by general practitioners and specialist doctors. This positive result reflects the importance and acceptance of the course among health professionals in Brazil and other Portuguese-speaking countries. The success of the Spanish version of the course motivated the Brazilian Ministry of Health to include translation into Portuguese as a line of action in the context of TA6/TC95. The translated course was launched in April 2023.



- The Advanced Course in Scientific Communication in the Health Sciences, focused on Open Science and other essential topics, aims to complement the introductory course by providing users with in-depth knowledge of scientific evaluation metrics, factors affecting the reproducibility of research results and, above all, the adoption of open science practices at all stages of research. This includes everything from project methodology to the progressive opening up of peer review and the dissemination of research data in open access repositories. Since its launch in 2023, the course has registered around 7,800 enrolments and 3,240 certificates issued. The countries with the highest participation in the Advanced Course in Scientific Communication in the Health Sciences are:

 - **Mexico:** 1,695 enrolled and 795 certified.
 - **Ecuador:** 1,102 enrolled and 662 certified.
 - **Colombia:** 975 enrolled and 442 certified.



- **Argentina:** 661 enrolled and 140 certified.
- **Peru:** 502 enrolled and 150 certified.

Knowledge Translation Products and Services

This line of action contributes to bridging the gap between research and practice through special services for research, analysis, synthesis and application of scientific knowledge to support decision-making processes in health and help reduce the so-called "*know-do-gap*". These are resources developed and made available on the VHL that are primarily aimed at facilitating the use of evidence for health decision-makers.

- **Windows of Knowledge** - Its main focus is to highlight selected content on relevant and/or priority health topics. The Windows of Knowledge Portal currently has 59 Windows of Knowledge available at <https://bvshalud.org/vitrinas/en/>. This number may vary according to the replacement of themes, the deletion of outdated Windows or the inclusion of new Windows. The Windows are developed in cooperation projects with the VHL Network, as in the case of the Multiprofessional Health Residency Commission Window in partnership with the São Paulo Municipal Health Department; in partnership with PAHO areas, such as the Health Promotion and Ethnicity and Health Windows; and also independently by the VHL Network with the application of the methodology made available by BIREME, such as the VHL Colombia Window of Knowledge. As a regular activity, the BIREME team publishes and maintains Windows of Knowledge dedicated to certain health dates, according to the calendar made available annually by PAHO. Examples of these Windows of Knowledge are: Leprosy, Obesity, Tuberculosis, World Health Day, Vaccination Week in the Americas, Malaria, Hypertension, Breastfeeding, among others.

The screenshot shows the 'Vitrinas do Conhecimento' portal interface. At the top, there are language options for 'Español' and 'English'. The main header includes the logo for 'bvshalud biblioteca virtual em saúde' and the title 'Vitrinas do Conhecimento'. Below the header, there is a search bar with the text 'Pesquisa...' and a 'Pesquisar' button. The search results show a total of 59 resources. Two results are visible:

- COREMU SMS-SP | Comissão de Residência Multiprofissional em Saúde**: A window of knowledge about the structure, programs, and production of knowledge from the Multiprofessional Health Residency Commission in São Paulo. It includes a 'Ver mais detalhes' button, the date 'Recurso adicionado em: 01/07/2024', and the language 'Idiomas disponíveis: Português'. It also lists related topics: 'Internato e Residência, Governo Local, Residência multiprofissional em saúde'.
- Bienestar para todos PYPAPS: Promoción y Prevención en Atención Primaria en Salud**: A window of knowledge about primary care promotion and prevention. It includes a 'Ver más detalles' button, the date 'Recurso adicionado em: 19/02/2024', and the language 'Idiomas disponíveis: Español'. It also lists related topics: 'Demografía, Ciência Translacional Biomédica, Acesso à Atenção Primária, Población diferencial, Atención primaria en salud, Traducción del conocimiento, Poblaciones de interés nacional'.

On the right side of the search results, there is a 'Assuntos' (Topics) section with a list of categories and their respective counts:

- Desenvolvimento Sustentável: 7
- Saúde Mental: 4
- Pandemias: 4
- COVID-19: 4
- Brasil: 3
- Bibliotecas Digitais: 3
- Governo Local: 3
- Qualidade de Vida: 2
- 16672: 2
- Doenças Cardiovasculares: 2
- Saneamento: 2
- Transtornos Relacionados ao Uso de Substâncias: 2
- Política Informada por Evidências: 2

- Evidence Maps** - This consists of a graphic representation of the evidence that exists in an area/theme, classified by type of intervention evaluated and results measured. It has a dual function: to synthesize the available evidence and identify gaps in knowledge. In 2023, 20 new maps were produced using the methodology adapted by BIREME, and by August 2024 another 3 maps had been published. The evidence maps are available on the *Tableau Public* Bireme Platform and indexed in the VHL collection. Available at:



<https://public.tableau.com/app/profile/bireme>. The Evidence Map Portal has 58 maps at: <https://bvsa.org/mapa-de-evidencias/en/>.

- To support and develop skills in the production of Evidence Maps, the online course "Evidence Maps: Methodology and Application" was launched in December 2022 as a self-learning course, available in Portuguese, English, Spanish and French. By August 2024, more than 4,427 students from different countries had enrolled in the course, of which 2,205 had successfully completed it. The countries with the highest number of participants were Mexico, Brazil, Colombia, Ecuador, Bolivia, Argentina, Chile, Peru and Uruguay.

The course is published and available on the Regional Public Health Virtual Campus:

- <https://bit.ly/CVOPAS-MapaEvidMetAplicPOR> (Portuguese)
 - <https://bit.ly/CVOPS-MapadeEvidencias> (Spanish)
 - <https://bit.ly/CVOPS-CardedesPreuves> (French)
 - <https://bit.ly/PAHOVC-EvidenceMap> (English)

- **EVID@Easy** - Guided Evidence Search Tool, which aims to support VHL users in the search for evidence for decision-making in public health and health practice, available at:



<https://bvsalud.org/evideasy/> - continues to operate and be updated regularly. The tool has been restructured, its content revised and it has had a new interface since 2023, available in 4 languages

(Portuguese, Spanish, English and French). The user's journey begins with the selection of a topic which, through questions pre-designed by experts and selected according to the user's needs, points to a search result with the main types of study suitable for answering questions on the topic. EVID@Easy has 180 health topics, considering the context of the SDG3 targets, the Sustainable Health Agenda for the Americas (SHAA2030) and a list of underserved diseases. The results are presented in the VHL. Documentation on the search strategies for each of the 180 themes can be found at: https://bvsalud.org/queries/?l=en_US.

1 Para iniciar, seleccione um tópico ou uma meta dos ODS3

- ODS3 - Meta 3.1 Reduzir a Mortalidade Materna
- ODS3 - Meta 3.2 Reduzir as mortes de recém nascidos e crianças com menos de 5 anos
- ODS3 - Meta 3.3 Acabar com as doenças tropicais negligenciadas e combater as doenças transmissíveis
- ODS3 - Meta 3.4 Reduzir as mortes prematuras devido doenças não transmissíveis
- ODS3 - Meta 3.5 Prevenção e tratamento do consumo de substâncias psicoativas
- ODS3 - Meta 3.6 Reduzir as mortes e traumatismos por acidentes de trânsito
- ODS3 - Meta 3.7 Acesso universal aos serviços de saúde reprodutiva
- ODS3 - Meta 3.8 Alargar a cobertura universal de saúde
- ODS3 - Meta 3.9 Reduzir as mortes por produtos químicos e contaminação do ar, água e solo

2 Seleccione o problema

- Gravidez na Adolescência
- Infecções Sexualmente Transmissíveis: Prevenção e Cuidados
- Saúde Sexual e Direitos Reprodutivos
- Serviços de Aborto Seguro
- Serviços de Planejamento Familiar e Infertilidade
- Violência Contra a Mulher e Práticas Nocivas

3 Para qual etapa do processo de tomada de decisão você está procurando evidências?

- Compreensão e caracterização do problema
- Identificação de opções (intervenções) para abordar o problema
- Considerações sobre a implementação das opções (intervenções)
- Avaliação do impacto da implementação das opções (intervenções) para o problema

4 Qual é o seu interesse específico relacionado ao problema?

- Identificar os benefícios e malefícios das opções para resolver o problema usando revisões sistemáticas
- Encontrar guias e diretrizes para prática clínica e política de saúde
- Encontrar guias e diretrizes GRADE para prática clínica e política de saúde
- Identificar os benefícios, danos e custo-efetividade das opções para abordar o problema usando avaliações de tecnologias de saúde
- Encontrar sínteses evidências para políticas para as opções

Suas seleções

- ODS3 - Meta 3.7 Acesso universal aos serviços de saúde reprodutiva
- Infecções Sexualmente Transmissíveis: Prevenção e Cuidados
- Identificação de opções (intervenções) para abordar o problema

Home / Pesquisa / 100

Ordernar por: [dropdown] Mostrar: 20 | 50 | 100 Resultados 1 - 16 de 18

Mais filtros

Filtrar

Filtros aplicados

Limpar todos

- Contexto em Saúde
 - ODS3 - Meta 3.7 Acesso universal aos serviços de saúde reprodutiva (remover)
- Problema de saúde
 - Infecções Sexualmente Transmissíveis: Prevenção e Cuidados (remover)
 - Guias, diretrizes, grade (remover)

Texto completo (16)

Base de dados

- BIGG - guias GRADE (16)

Assunto principal

- Infecções por HIV (7)
- Antivirais (3)

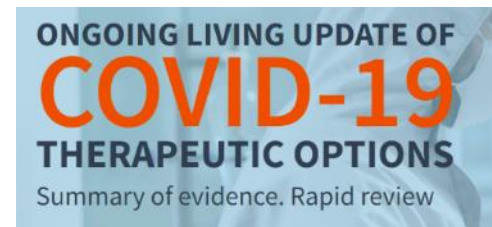
- Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring: recommendations for a public health approach
World Health Organization
Geneva: WHO; 2 ed; July 2021. 592 p. amb, illus.
Monografia em Inglês | BIGG - guias GRADE | ID: biblio-1354979
- WHO guideline for screening and treatment of cervical pre-cancer lesions for cervical cancer prevention, 2nd ed
World Health Organization
Geneva: WHO; 2 ed; 2021. 115 p.
Monografia em Inglês | BIGG - guias GRADE | ID: biblio-1282524
- Updated recommendations on service delivery for the treatment and care of people living with HIV
World Health Organization
Geneva: WHO; 2021. 79 p.
Monografia em Inglês | BIGG - guias GRADE | ID: biblio-1282851
- Prevention of mother-to-child transmission of hepatitis B virus: guidelines on antiviral prophylaxis in pregnancy
World Health Organization
Geneva: WHO; July 2020. 58 p.
Monografia em Inglês | BIGG - guias GRADE | ID: biblio-1383258

- **BIGG-REC** - Database that brings together the recommendations of the PAHO and WHO GRADE guidelines for SDG-3, which aims to collect all the clinical, public health and health policy recommendations issued in the WHO and PAHO guidelines that follow the GRADE approach. It is



an open-access repository in the VHL that allows decision-makers to identify recommendations relevant to their issue of interest. One of its main objectives is to enable decision-making by health professionals and decision-makers, contextualized at local, provincial, regional and jurisdictional levels, by adopting or adapting these recommendations. The BIGG-Rec database of PAHO and WHO GRADE Guidelines is in the Regional VHL, with more than 3,500 recommendations integrated into the BIGG. Available at: <https://sites.bvsalud.org/bigg/en/biblio/> and <https://bigg-rec.bvsalud.org/en>.

- **COVID-Therapy** - Presents a summary of evidence on therapeutic options for COVID-19. The resource is available on the VHL and is based on a live systematic review of the evidence published periodically in the PAHO-IRIS Repository. The information is summarized and presented according to the GRADE approach, including interactive summary of results tables and color estimates of effects summaries. Available at: <https://covid-therapy.bvsalud.org/>.



Other databases available on the VHL that focus mainly on health decision-making are: BIGG, PIE and BRISA.

- **International Database of GRADE Guidelines (BIGG)**, launched in 2019, has continued to be updated and is available for access on the VHL's regional portal. It brings together more than 2,000 guides registered and organized according to the SDG3 objectives.



- The database dedicated to studies systematizing evidence for health policies, called **PIE** -



Evidence-Informed Policy, launched in 2021, as of August 2024 records around 760 studies including *policy briefs*, deliberative dialogues and other types of content that systematize evidence for policies. PIE is part of the

VHL Regional collection at: <https://sites.bvsalud.org/pie/pt/biblio>.

- The **BRISA/RedETSA database** offers access to more than 3,400 health technology assessment reports published by more than 30 institutions in 13 countries in the Americas. A new RedETSA



portal has been developed in coordination with the Medicines and Health Technologies area at

PAHO Headquarters (MT/HSS), including new functionalities such as Fact Sheets from member countries.

BIREME's technical cooperation has been maintained in the development of regional and international projects, such as:

- **ProEthos**, to systematize the activities of research ethics committees, supporting the teams in Argentina, Honduras, Guatemala and Peru in implementing the platform, as well as PAHO



Headquarters, in coordination with the Regional Bioethics team, for the use of ProEthos in PAHOERC - PAHO/WHO Research Ethics Committee. In 2022, the ProEthos platform continued to be updated to improve it and develop new functionalities, according to the experience in use by the PAHOERC team. In

coordination with the Regional Bioethics Team, ProEthos is being implemented by the WHO Research Ethics Committee for adoption in Geneva. Due to the WHO's interest, the platform has been evaluated and updated to meet all technical cybersecurity requirements. In addition to Geneva, other WHO Regional Offices have shown interest in adopting ProEthos to support AFRO and EMRO member countries.

- **CARPHA EvIDeNCe Portal** for access to health evidence for English Caribbean countries. The portal continues to be updated, especially the MedCarib database with around 234 documents on COVID-19 in the Caribbean. In 2024 there were training sessions for representatives of the MedCarib network, as well as BIREME's online participation in the ACURIL 2024 event.



- The **Traditional Medicine Global Library (TMGL)** is being developed in coordination with the Global Traditional Medicine Center (GTMC/WHO) during the 2024-2025 biennium. The project aims to build and implement a platform to gather, organize and give visibility to the knowledge and evidence related to traditional health practices that exist in the various WHO regions and their countries. This library should facilitate access to information and support global decision-making on the subject.



- The **Global Index Medicus (GIM)** aims to organize and disseminate the technical and scientific production of low- and middle-income countries. It is an initiative developed by BIREME in coordination with WHO Headquarters in Geneva and the WHO Regional Offices. GIM offers access to more than 2.5 million bibliographic references, 74% of which are in full text, available in the LILACS, AIM, IMEMR, IMSEAR and WRIM databases, representing the WHO's Americas, Africa, Eastern Mediterranean, Southeast Asia and Western Pacific regions, respectively. At the request of the WHO, BIREME is contributing to the development of the global COVID-19 scientific literature base. The WHO COVID-19 search interface was launched in April 2020 and continues to be updated daily. Data curation is the responsibility of the WHO Library team, which coordinates a global network of volunteers and experts to identify, select and organize the documents. The documents currently available include bibliographic references from international databases such as Medline, Scopus, Web of Science, Proquest, Embase, LILACS, WPRIM, Elsevier, etc., *preprints* from the bioRxiv,



medRxiv, SSRN, chemRxiv, SciFinder, SciELO, etc. repositories, and grey literature from national and international organizations. Accesses to the database demonstrate its visibility and global impact, with accesses from 221 countries and territories, according to the Google Analytics service.

Initiative BIR.02 - Information Services

- The **VHL Regional Portal** offers access to an extensive collection of 60 information sources totaling around 38.2 million records. The collection includes LILACS, MEDLINE, national, thematic, regional (MEDCARIB, MOSAICO, BDEFN) and international databases, *preprint*

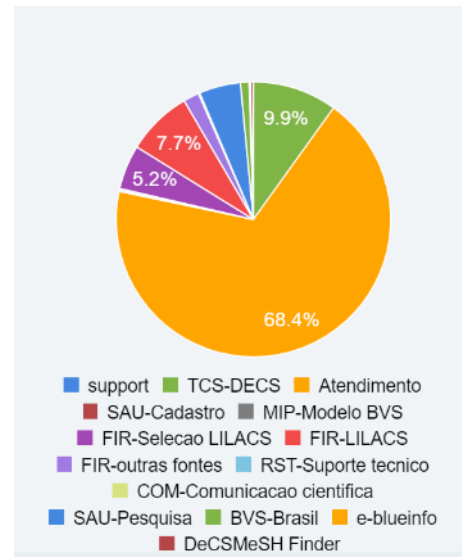


servers, institutional repositories (WHO-IRIS, PAHO-IRIS), educational resources (CVSP), websites (LIS), multimedia resources and terminologies (DeCS/MeSH). The increased visibility and access to scientific and technical health information in AL&C can be seen in the number of accesses to the collection of information sources on the VHL Regional Portal. In 2023, around 27 million access sessions were recorded by 17 million users, resulting in more than 220 million *event counts*, of which 56 million were *page views*, 16 million were *view search results* and 1.1 million were *file downloads*. In the first half of 2024 there were around 13.4 million access sessions by 9 million users, which resulted in around 27.7 million *page views*, 493,000 *file downloads* and 8.3 million *views of search results*. Accesses from Brazil accounted for 55% of accesses.

Visitas aos P/S do Portal Regional da BVS						
2023	Sessões de acesso	Usuários	Event Count	Páginas visitadas	File download	View Search Results
Busca Integrada (IAHx)	23.811.739	15.044.055	213689401	51.130.742	1.010.394	16.162.682
Busca Google (até jun)	97.999	76.058		322.542		
Portal Regional BVS	2.130.940	1.161.131	10417080	3.120.639	3.124	305.020
Portal LILACS	767.915	439.654	3540537	980.664	119.184	50
Portal LIS	24.118	21.042	177226	48.117	295	15.068
MinhaBVS (jun)	56.116	45.227		152.389		
Vitrines (abr-dez)	32.223	25.327	163945	39.692	1.004	1.358
BIGG	7.277	4.641	82992	22.263	1.531	9.341
PIE	8.292	5.737	63421	16.957	1.791	5.516
BRISA	33.385	27.930	194147	51.246	412	10.991
total	26.970.004	16.850.802	228.328.749	55.885.251	1.137.735	16.510.026

- **Capacity building for access to and use of information** - Since the COVID-19 pandemic, practically all the capacity building actions offered by BIREME in the context of the VHL, LILACS, the Referral Network and the Indexer Network have been carried out virtually. Priority was given to developing and updating self-learning courses and open educational resources (OER) on VHL products and services, available in four languages (Portuguese, English, Spanish and French). These courses have been available on the Virtual Campus for Public Health (CVSP) since December 2022 and, to date, have registered more than 18,615 enrolments, of which 12,317 have successfully completed them. The countries with the highest participation in these courses are Mexico, Brazil, Ecuador, Colombia, Argentina, Peru, Bolivia, Uruguay and the Dominican Republic.
 - ✓ Links to the Access and Use of Scientific Information in Health course:
 - Portuguese - <https://bit.ly/CVOPAS-Acesso-Info-macao-POR>
 - English - <https://bit.ly/PAHOVC-ScientificInformationinHealth>
 - Spanish - <https://bit.ly/CVOPS-Info-macionCientificaEnSalud>
 - French - <https://bit.ly/CVOPS-Info-mationScientifiqueenSante>
 - ✓ Links to the OER, in 4 languages (quick videos):
 - Retrieving information from the VHL Portal - <https://youtu.be/tqJ3Gjt6vqY>
 - Refining search results - <https://youtu.be/18OKELsiYts>
 - Tips for searching the VHL - <https://youtu.be/8YI2Skxrbwo>
 - *Retrieving information from the VHL Search Portal* - <https://youtu.be/u4wGLvSmm98>
 - *Refining search results* - <https://youtu.be/qnaaqayCsQA>
 - *VHL search tricks* - https://youtu.be/ZGbBhho_3v8
 - *Retrieving information from the VHL Portal* - <https://youtu.be/RbaW18WYmIA>
 - *Refining results from the VHL search* - <https://youtu.be/SKZG7YtzbRA>
 - *Tips for searching the VHL* - <https://youtu.be/x0K4gLnNOOrM>
 - *Search for information on the VHL Portail* - <https://www.youtube.com/watch?v=leJNTuHI0UI>
 - *Affiner les resultats de la recherche dans BVS* - <https://www.youtube.com/watch?v=VQyFne20k3k>
 - *Astuces pour la recherche dans BVS* - <https://www.youtube.com/watch?v=l2bcRn6-cel>
- ✓ Guides and Tutorials (in the process of being published on the homepage of the VHL Portal) : https://drive.google.com/drive/folders/1VwOSIbzC20GzNJe9P_Zw7bC9hiH0cGoj?usp=sharing

- In addition to the courses, users have the "[Ask the Librarian](#)" service available at the VHL (operated by the Livezila system) on different VHL pages and portals. The service receives an average of 1,000 calls a year, categorized by demand. The following graph shows the percentages by category of calls in 2024, with 547 calls made up to July. The Customer Service category represents general queries and requests for information on accessing the full text of documents. The Research category accounts for around 6.5% of inquiries and has to do with queries about searching the VHL on different health topics.



- The [Search Strategies Repository](#) makes it possible to document, share and disseminate the strategies developed by the Reference Network, used in the development of scientific studies, Windows of Knowledge, Evidence Maps and thematic filters of the VHL, favoring the transparency of data from these products. The repository currently has 1070 themes. Each theme contains one or more search strategies for the VHL or other sources of information.



- The Network of Reference Librarians brings together 182 members from 18 countries with the aim of sharing experiences, competencies and skills related to the development of search and retrieval strategies in the main sources of health information. In 2024 there were 3 virtual meetings of the network with the theme: The librarian in the production of scientific evidence: How I do it, where there was a presentation and testimony from specialists who work in the search and production of scientific studies at universities, research institutes and hospitals.

- The **VHL's Personalized Services (MyVHL)**, which allow users to identify themselves in order to



use the selective dissemination of information services, have made it possible to know the interest profile of the VHL's public, making it possible to offer specific information by user segment. MyVHL now has more than 80,000 active users, reflecting a significant and continuous increase in recent years. In the last 12 months, there has been an 18% growth in the user base. Currently, more than 2,000 users receive weekly e-mail alerts with documents corresponding to their interest profiles available on the VHL, ensuring that they are kept up to date with the most relevant information for their areas of activity.

- **e-BlueInfo** is an application that puts crucial information in the hands of primary health care professionals, facilitating access to up-to-date and selected content. This initiative involves the



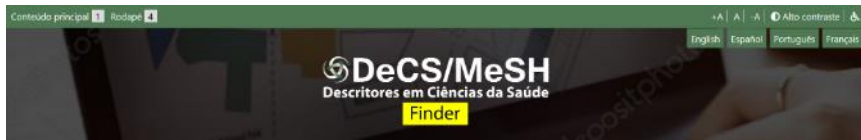
participation of Brazil, Colombia, Honduras, Paraguay, Peru, Guatemala, El Salvador and PAHO/WHO, which publish regularly on the app. Since its launch in

December 2018, e-BlueInfo has accumulated more than 20,850 downloads, reflecting its relevance and global reach. In 2023, the app registered around 1,480 new downloads in 46 countries, including Brazil, Peru, Guatemala, El Salvador, Paraguay and Colombia. Version 2.0 of the app offers a variety of services, such as a comprehensive collection of Guides published by PAHO and WHO on varied topics, including the workforce, road traffic accidents, and sexual and reproductive health. The application also has an advanced mechanism for retrieving scientific evidence using ICD-10 coding, as well as documents from countries available in the VHL, legislation, videos, and the possibility of consulting, after authentication, preferred and visited documents.

Initiative BIR.03 - Intelligence in Health Sciences Information

- **Specialized tools** have been adopted **for data management, quality and** visualization, making it possible to improve the metadata stored in LILACS and to generate and visualize infometric indicators of scientific and technical production in AL&C health. A new conceptual model and a new systems architecture, and data as services, are being developed to promote a framework for the governance of the data available in the VHL's information sources, by means of data extraction, transformation, aggregation, analysis and visualization techniques to generate indicators of the scientific and technical production stored in LILACS and MEDLINE.

- DeCS/MeSH Finder - this feature has been in regular operation since 2021 and allows you to



automatically locate any descriptor, synonym or qualifier of the controlled

vocabulary in a given text in a fraction of a second. It was developed with the needs of researchers in mind during the process of writing and submitting scientific articles, editors who need to review manuscripts submitted to journals and information science professionals who work on indexing health content.

- The **Evidence Map Methodology** adapted by BIREME was applied in the preparation of new evidence maps. By July 2024, more than 50 evidence maps had been produced and published in the VHL, and other evidence maps are being produced with the participation of groups of researchers in different areas.

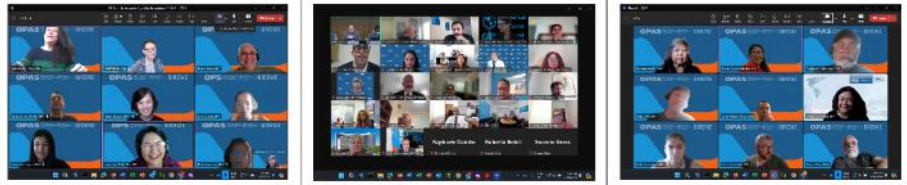


Initiative BIR.04 - BIREME Leadership and Management

- In the first half of 2024, BWP 24-25 is approximately 50% implemented and continues to be monitored, including the preparation of periodic analyses and controls on the formalization of its funding sources and with the support of fortnightly meetings to monitor products, services and projects and the respective use of regular and non-regular financial resources (*grants*) and the corresponding operation of the PAHO/WHO WD/PMIS system.

- Recognition of BIREME's administrative and management structure considering alignment with PAHO/WHO policies and procedures, highlighted in the evaluation result of the last internal audit, with the 4 recommendations pointed out being closed.
- Three main efficiency and cost-saving measures were identified: 1. In line with the Agile Development Methodology, regularly monitor projects and hold meetings, while strategically communicating project results to increase visibility and impact; 2. Improve effective internal controls and continuously guide staff on the optimal use of local infrastructure to improve management efficiency; and 3. Prioritizing virtual meetings to save costs and, in line with the PAHO Green initiative, increasingly adopting sustainable practices such as electronic documents and partnerships with eco-friendly suppliers.
- In line with BIREME's 2023-2025 Strategy for its digital transformation, project developments are in the process of adopting the Scrum framework, considered to be the main reference for the agile management of digital information products. In recent months, as part of the strategy to implement the Agile approach to project and software development, the BIREME team has been obtaining certifications in the Scrum framework, in order to enable the development of skills and the strengthening of its intellectual capital. This action is in line with ongoing PAHO principles.
- Close communication with the Brazilian Ministry of Health (MS) in coordination with PAHO Brazil to formalize Terms of Cooperation (TC) for the development of projects, products and services for the improvement of BIREME and for national and regional technical cooperation. Of particular note are the effective efforts to submit and monitor TA6, TA8 and TA9 to TC95 and TA2 and TA4 to TC93 in force until February/2027.
- BIREME's management remains effective and aligned with PAHO/WHO policies and procedures and its banking services coordinated with PAHO/WHO Brazil (PAHO *Shared Services Center AM*), given the ongoing process of complete implementation of BIREME's new institutional framework.
- Still within the framework of its new institutional structure, which is in the process of being implemented, its Statute is still pending formalization and BIREME's CNPJ (National Registry of Legal Entities) is up to date with national bodies, especially the Federal Revenue Service, which strengthens the Centre's institutional status in Brazil.

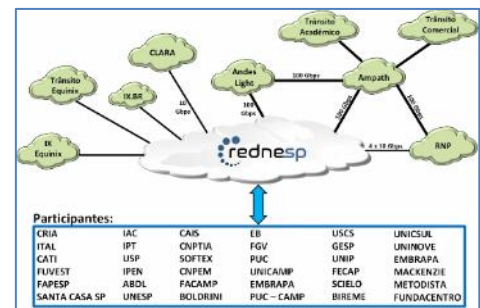
- Considering the ongoing PAHO policy of hybrid work, activities continue to be carried out virtually and face-to-face, with regular actions to support the development of skills and strengthen the organizational climate, fixed intra- and inter-team meetings, encouragement of training programs provided by PAHO/WHO and support from external consultants, face-to-face gymnastics and periodic general meetings, which include information and knowledge exchange activities.



- In addition, in order to keep staff informed of all the activities at different levels and to support everyone in taking ownership of events and decision-making, BIREME/PAHO/WHO publishes a weekly newsletter, **Fique por Dentro**, which as of mid-2024 has 195 editions. The issues can be accessed on the portal: <https://fiquepordentro.bireme.org/>.



- BIREME/PAHO/WHO has an IT infrastructure that meets the demands of technical cooperation by providing a park of servers installed in a datacenter a few kilometers from its physical facilities and with direct access to the international Internet via the *Research and Education Network of São Paulo* (rednesp). Around 300 instances of technical cooperation are hosted on these servers, which have an internal and external monitoring system to ensure high availability. In addition, the backup system is periodically reviewed and improved, helping to minimize impacts in the event of incidents. Another important point is information security and, in this context, BIREME/PAHO/WHO continues to implement a set of good practices to guide the implementation and updating of the systems, such as the result of the evaluation of the security components of the LILACS and ProETHOS2 products carried out in coordination with the IT area of PAHO/WHO Headquarters, with a positive result even considering the detailed documentation of both systems.



- BIREME's formal communication channels in operation (institutional website in Spanish, English and Portuguese), PAHO Intranet, Facebook, X/Twitter and BIREME News Bulletin with emphasis on the six texts published monthly in three languages, which is in its 89th edition, available at:



<http://boletin.bireme.org/>. The Bulletin is disseminated to institutions that are part of the VHL and LILACS Networks, government entities and throughout PAHO/WHO. BIREME's presence on social networks continues to be even more active, with daily updates on the progress of BIREME's projects, products and services and sharing relevant information from PAHO and WHO on health priorities in the LAC Region and the Organization's health campaigns. Communication plans are being implemented within the framework of projects that count on BIREME's contribution, in order to publicize the

products and services incorporated and the progress in the different stages of the project. Communication actions with the focal points of the PAHO Offices in the countries to publicize BIREME's information products and services, supporting their implementation at the local level.

- BIREME's institutional website has been updated and runs on the Drupal platform, as do the websites of the Headquarters, Representative Offices and PAHO Centers. The BIREME website provides information about the Center, its mission, objectives and history, governance, its main products and services (described in Annex 1), news, events, and main institutional supporters, in three languages. The site's news on the launch and updating of products and services, technical cooperation actions and institutional news is updated weekly. Available at:

<http://www.paho.org/bireme/>.

- BIREME's products and services are usually presented at face-to-face events that take place in the Region. In Annex 2 we present a list of the main events in which BIREME was present in 2023 and 2024, highlighting the First Global Summit on Traditional Medicine of the World Health Organization (WHO), in India, and the VHL Network Meeting 2023, in São Paulo, with three subsequent parallel meetings focusing on the Americas TCIM Network, the MedCarib Network and technical cooperation with Infomed Cuba.



2.2 BIREME's financing structure

The establishment of a stable and balanced structure for BIREME's financing was one of the main motivations for its institutional reform. BIREME's Statute expects this financing structure to be analyzed and recommended by BIREME's Advisory Committee (AC), which also recommends financial contributions from Brazil and PAHO, and among BIREME's participating members.

The following table shows the distribution of the financial contributions received in the two biennia (2024-2025 and 2022-2023).

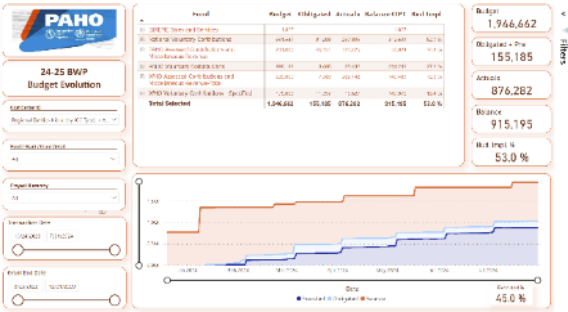
BIREME's Financing Sources		Biennium		Biennium	
		2022-2023		2024-2025	
Sources	Type	Entries	%	Entries	%
1 PAHO	ACP/ACW	1,863,000	37%	1,540,000	48%
2 Ministry of Health of Brazil	PVC	969,420	19%	143,230	4%
3 TCs with PAHO Brazil	NVC	168,711	3%	336,243	11%
4 WHO	WHO	294,140	6%	550,000	17%
5 Health Secretary	NVC	26,398	1%	4,779	0%
6 Technical Areas and countries	Other	215,506	4%	26,980	1%
7 Balance from the previous biennium		1,516,065	30%	584,152	18%
		5,053,239		3,185,384	

1. PAHO Regular funds
2. TA2/TC93 (SE and SAPS), and TA4/TC93 (SESAI)
3. {2022-2023} - TC91 (SECTICS), TC87 (FUNASA) {2024-2025} - TC140 (SECTICS), TC91 (SECTICS) and TC157 (SEIDIGI)
4. {2022-2023} - GIM, COVID {2024-2025} - GIM, TMGL
5. Municipal Secretary of Health (SMS-SP)
6. {2022-2023} - Windows of Knowledge (NIC, FPL), ProEthos (HSS), MTCI (HSS and MEX) {2024-2025} - Clinical Algorithms (EIH), RedETSA/Brisa (IMT) and Maternal Health (HSS)
7. BSS, TC93 (BIREME's Improvement), TC95 (SE), SMS-SP and TC91 (DECIT)

Pipeline contribution:

- TA5/TC93, possibility with the Ministry of Health until the Headquarters Agreement is formalized, for the regular contribution in 2024-2027 (approx. US\$ 3 Million)
- TA13/TC95, being formalized with the MS (approx. US\$ 655,000)
- TA1/TC143, being formalized with FIOCRUZ (approx. US\$ 180,000)

The financing of BIREME's Biannual Work Plans (BWP) relies on regular contributions from its main institutional partners and non-regular contributions from technical cooperation projects under the PAHO/WHO Brazil Terms of Cooperation in the country. These projects also result in products and services for use in countries in the region. With the affiliation of new members, as established in BIREME's Statute, the sources of funding can be diversified. At the same time, BIREME continues to mobilize efforts to expand its sources of funding through projects, Agreements and services, as provided for in its proposal for a Resource Mobilization Plan to ensure the Centre's financial sustainability.



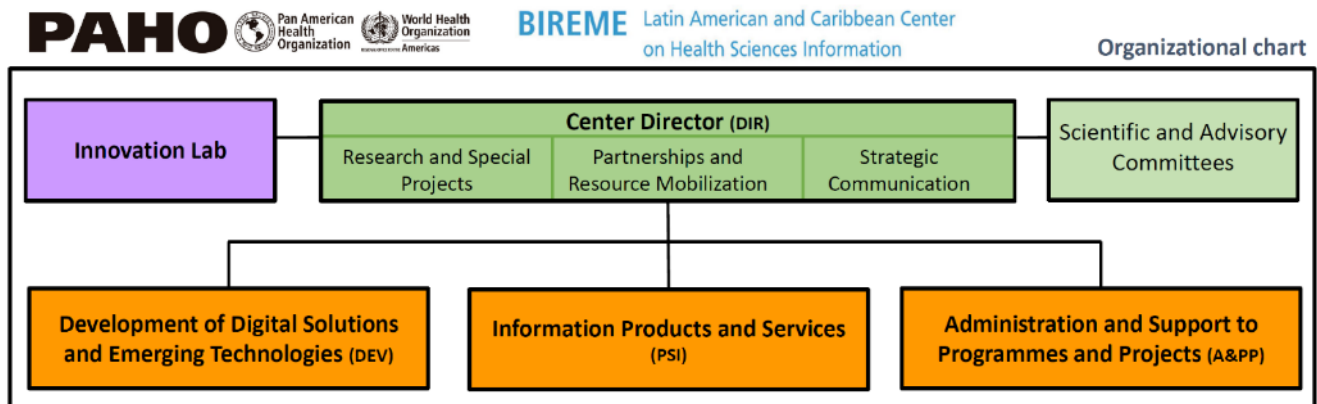
Other entities with which BIREME maintains a close relationship and/or with which specific projects are carried out are the São Paulo Municipal Health Department, the Oswaldo Cruz Foundation (FIOCRUZ) and the National Commission of Health Secretaries (CONASS), among others. Some of the projects carried out are within the scope of the agreements that PAHO Brazil has with the Ministry of Health.

BIREME's institutional relationship with the WHO (World Health Organization) has been strengthened, also in the context of its global alliances and actions, especially with projects in coordination with the Global Center for Traditional Medicine (GTMC/WHO) for the development of the Global Traditional Medicines Library (TMGL) and with the Digital Information Libraries and Networks Unit at WHO Headquarters, with the *Global Index Medicus* (GIM) for the countries in the WHO Regions.

3. Human capital and cooperative work

BIREME's intellectual capital consists of professionals with experience in information management, in the development of methodologies and technologies for the management of scientific and technical information, and in an administrative infrastructure that includes information technology and management infrastructure. Two categories of relationship characterize the staff contracts: PAHO/WHO (02 employees) and HSP/SPDM (38 employees).

Within the framework of its 2023-2025 Strategy Towards Information Products and Services 4.0, BIREME is presenting a new organizational chart, which, under the leadership of the Director and management areas, also includes an Innovation Laboratory, two technical departments and a project and administration department.



The Center keeps its Personnel Plan aligned with PAHO/WHO strategic planning, also taking into account policies, procedures and internal controls to ensure institutional alignment with transparency and the commitment of all its staff. Also noteworthy in this regard is the availability of more than 40 (forty) consultants and specialists who, under the leadership of the BIREME team, also support the development of information projects, products and services.

Something that makes BIREME stand out is the cooperative work through networks of individuals and institutions for the management and exchange of information and knowledge present in 30 countries with more than 2,000 institutions. This networking offers flexibility in the expansion and inclusion of new members, as well as in the exchange of ideas, experiences and knowledge.

4. CRICS - Regional Congress on Health Sciences Information

BIREME is coordinating the 11th edition of CRICS in conjunction with the 8th edition of the VHL Coordination Meeting. The events are due to take place in December 2025 with the aim of addressing the following priority lines for the development of technical cooperation:

- I. **Incorporating LLMs (Large Language Models):** This *stream* will discuss how LLMs are being integrated into health information systems to improve information retrieval, data synthesis and clinical decision support. The opportunities and challenges of this technology will be explored, including case studies and training workshops.
- II. **Personalizing Content:** Focused on how AI can personalize the user experience in digital libraries and health information platforms, this *stream* will cover everything from recommendation algorithms to adapting content based on preferences and usage history.
- III. **Virtualization of Digital Libraries:** This *stream* will explore the creation and management of immersive virtual spaces for access to educational and scientific health resources. The discussion will include the use of augmented reality (AR) and virtual reality (VR), as well as digital platforms that transform the way knowledge is disseminated and accessed.
- IV. **Digital Collection Management with AI:** Here, the focus will be on AI tools applied to digital collection management, such as automatic indexing, content curation and digital preservation. The benefits of these technologies in optimizing the work of information professionals and maintaining the quality and accessibility of digital collections will be discussed.

CRICS, since its first edition in 1992, is one of the most important and consolidated international congresses in scientific and technical information and periodically addresses the state of the art in the fields of information, knowledge and management of scientific evidence. It includes topics on scientific communication, librarianship, information sciences, methodologies and information technologies and their application in national research, education and health systems.



The VHL Regional Coordination Meeting, which is the most important forum for the exchange of the VHL cooperation network, is held as a preliminary event to CRICS and analyzes the state of development of the VHL at regional, national, thematic and institutional level.



Both events are coordinated by BIREME in cooperation with national and local institutions in the host countries. CRICS10 and VHL7 took place in December 2018. Due to the availability of resources and the COVID-19 pandemic, the CRICS11 and VHL8 events will take place in 2025. In November 2023, BIREME coordinated meetings with the VHL Network, which included 21 countries. These events will be an important opportunity to exchange with the scientific community all the advances made with our collaborative networks.

5. Final considerations

BIREME continues to stand out as a fundamental pillar in the advance towards health for all in Latin America and the Caribbean. BIREME's health information products have continued to grow in number and breadth of access in the region and worldwide, providing scientific and technical information for health decision-making. It is also important to consider that approximately 50% of indexed scientific production in the region is indexed primarily in LILACS, while the VHL integrates multiple databases, including not only LILACS, but also MedLine. Its networking, involving institutions and health professionals throughout the region, ensures the continuity of efficient operations, even in adverse conditions, such as those imposed by the COVID-19 pandemic.

Over the last few years, BIREME has increased the visibility of scientific production in the region, keeping the DeCS vocabulary updated in four languages and ensuring adherence to the highest international standards. In addition, the development of open source methodologies and technologies strengthens the democratization of access to information.

The institution also excels in training human resources, developing local skills for the production and management of health information. These actions have been fundamental to the implementation of global, regional, sub-regional and national projects, effectively contributing to the improvement of the health information infrastructure.

Even in the face of challenges such as the COVID-19 pandemic and other public health emergencies, BIREME has shown resilience and adaptability, keeping its work plan on track and achieving the planned results.

By promoting access to and use of scientific and technical information, BIREME not only contributes to making informed health decisions and improving quality of life, but also strengthens health systems and contributes to reducing health inequalities in Latin America and the Caribbean. By accelerating innovation in its health information products and services, BIREME reaffirms its role as an essential pillar in building healthier and more resilient societies, in line with PAHO/WHO principles and the Sustainable Development Goals.

Annex 1 - BIREME products and services

WHY USE BIREME'S SERVICES AND PRODUCTS?

- More than 50 years of tradition, knowledge and experience in information management in the health sciences.
- It is an international non-profit specialist center that aims to improve the health of the peoples of the Americas.
- It belongs to PAHO/WHO, the oldest international health organization in the world.
- It has solid partnerships with government and academic institutions.
- It offers innovative information products and services that follow international standards and state-of-the-art methodologies and information technologies.
- It offers access to up-to-date, reliable and relevant content.

WHAT ARE BIREME'S PRODUCTS AND SERVICES?

VHL - Virtual Health Library

It facilitates access and gives visibility to a wide collection of health information sources through regional, national and thematic portals (instances) that apply the VHL Model of health information management. <https://bvshalud.org/>

LILACS - Latin American and Caribbean Literature in Health Sciences

The main and most comprehensive database of scientific and technical health literature published in LAC countries. It indexes journal articles, books, theses, technical reports and other types of documents. <http://lilacs.bvshalud.org/>

Health Sciences Descriptors (DeCS/MeSH)

Terminology in Health Sciences in Portuguese, Spanish, English and French. <https://decs.bvshalud.org>

DeCS Finder

Automatically locates any descriptor, synonym or qualifier from the DeCS/MeSh controlled vocabulary in a given text. <https://decsfinder.bvsalud.org/dmfs>

Global Index Medicus (GIM)

Biomedical and public health literature produced by and in low- and middle-income countries. <https://www.globalindexmedicus.net/>

VHL Network

Libraries that apply the VHL Model to develop VHL instances (portals) about a country, region, thematic area or institution. <http://red.bvsalud.org/>

MyBVS

Personalized services for organizing and storing documents according to the user's profile of interest, available on the web and via an application for mobile devices. <https://platserv.bvsalud.org/>

e-BlueInfo

Application for mobile devices that puts information for health practice in the palm of the hands of health professionals. <http://e-blueinfo.bvsalud.org>

Windows of Knowledge

A space that gathers, organizes and highlights selected information from the VHL and other information sources that is relevant to priority health issues. <https://bvsalud.org/vitrinas>

Evidence Map

Graphical representation of the evidence that exists in an area, classified by type of intervention evaluated and results measured. It has a dual function: to synthesize the available evidence and to identify gaps in knowledge. <https://mtci.bvsalud.org/mapas-de-evidencia/>

PIE

A collection of documents that contributes to decision-making processes based on the best scientific evidence. <https://sites.bvsalud.org/pie/pt/biblio>

BIGG

International database of guidelines, protocols and clinical guidelines that apply the GRADE system of evidence assessment. <https://sites.bvsalud.org/bigq>

VHL InfoButton

Service that retrieves scientific evidence available in the VHL related to the context of the patient's clinical history.

BRISA

Regional Database of Health Technology Assessment Reports from the Americas. <https://sites.bvsalud.org/redetsa/brisa>

LEYES

Health legislation in LAC countries. <https://sites.bvsalud.org/legislacion>

REA

Open educational resources in health sciences. <https://sites.bvsalud.org/rea/bireme>

EVID@Easy

Evidence-oriented search tool in the VHL to facilitate decision-making in health. <https://bvsalud.org/evideasy/>

In person and online courses

Training opportunities in information management, knowledge management, access to and use of information and scientific communication in health, through face-to-face courses available on the Virtual Campus for Public Health. <https://www.campusvirtualesp.org/>

CRICS

Regional Congress on Health Sciences Information. <https://www.crics10.org/>

Annex 2 - Main events in which BIREME participated during 2023-24

2024

- 8-9/Aug - *VII International Workshop in Rational Use of Medicine, IV Workknowledge in Evidence-Informed Policy*, I Integrated Meeting of NATS/REBRATS, NEVs/EVIPNet and the Brazilian Coalition for Evidence. Sorocaba, SP.
- May 21-22 - BIREME [Technical Training](#) Event - [Municipal Health Department - SP](#) - SMS-SP VHL Project, BIREME. São Paulo, SP.
- May 12-16 - [ACURIL 2024](#). Online.
- May 1-9 - [Second Meeting of the G20 Bioeconomy Initiative](#). Brasília, DF.
- 11-14/Apr - [XI Brazilian Congress of Telemedicine and Telehealth \(CBTms\)](#), Goiânia, GO.
- 16-23/Mar - [Global Library of Traditional Medicine](#):
 - *Expert's meeting on March 19-21*. New Delhi, India.
 - *WHO internal coordination meeting at the Global Traditional Medicine Center interim office*. Jamnagar, India.

2023

- 30/Nov-2/Dec - Minicourse and presentation on DeCS updates at the II Brazilian Health in Libras Congress. Juazeiro, BA
- 27/Nov-1/Dec - National Seminar on University Libraries - VHL Brazil stand. Florianópolis, SC
- 22/Nov - ABEC Meeting - criteria for selection and retention of LILACS journals. São Paulo, SP
- 21-22/Nov - EVIPNet Brazil Meeting. Brasília, DF
- 13-16/Nov - VHL 2023 Network Meeting: MedCarib Network, MTCI Americas Network, P/S with Infomed. São Paulo, SP
- 12-16/Nov - *Relacsis 4.0 - Information Systems and Digital Health in the Americas*. São Paulo, SP
- COINFO - presentation on LILACS
- 17-18/Aug - *1st WHO Global Summit on Traditional Medicine*. Gandhinagar, India
- July 25-28 - *Global Workshop on Biodiversity, traditional knowledge, health and well-being*. Rio de Janeiro, RJ